

DATA SHEET

HD6224A

4K60 HDMI DUAL-HEAD KVM SWITCH

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT BLACKBOX.COM



OVERVIEW

4K60 HDMI DUAL-HEAD KVM SWITCH – 4-PORT (HD6224A) DATA SHEET

INTRODUCTION

The 4K60 HDMI Dual-Head KVM Switch - 4-Port is a dedicated multi-platform KVM switch capable of managing four dual-head 4K computers through a single KVM. Built with ultra-HD ready HDMI outputs, the KVM Switch offers full 4K emulation at 60 Hz directly from the device. Until now, HDMI switches lost emulated picture when disconnected from monitors, leading to confusion and disorganization upon reconnecting. With the 4K60 HDMI Dual-Head KVM Switch, full EDID-assisted HDMI video emulation ensures visual workspaces and screen resolutions are remembered.

The KVM Switch is HDCP compliant, supporting screen resolutions up to 4K Ultra-HD (3840 x 2160 @ 60 Hz) with responsive EDID emulation. Additionally, the KVM Switch is compatible with any USB peripheral.

The KVM Switch is also easy to control with both a simple front-panel interface, as well as RS-232 or hotkeys.

- **Source switching made easy:** The KVM Switch offers simplified management between four dual-head HDMI equipped computers' USB 2.0 outputs. Keyboards, mice, and other connected USB devices can be switched between with ease. This dynamic KVM switch can be controlled via hot keys or RS-232 commands, as well as directly through the console's easy-to-read front panel.
- **EDID passthrough and recognition:** The KVM Switch features EDID passthrough technology and source recognition, which enable smooth and efficient switching in virtually any scenario. This plug-and-play EDID functionality makes set up hassle-free and simple.
- **Full USB keyboard and mouse emulation:** The USB keyboard and mouse emulation used by the KVM Switch provides quick source switching via keyboard hotkeys. The KVM Switch simulates the presence of a keyboard and mouse for every attached computer. This essential function simulates keyboard and mouse control for all connected computers, so switching between each is kept seamless and completely uninterrupted.

FEATURES

- **SUPPORTS UP TO ULTRA-HD 4K (3840 X 2160) @ 30/50/60 HZ**
- **SUPPORTS 3D**
- **SUPPORTS LPCM, DOLBY-AC3, DTS7.1, AND DSD/DOLBY TRUEHD/DTS-HD MASTER AUDIO**
- **SUPPORTS HDMI 1.3, 1.4, AND 2.0**
- **HDMI AND HDCP COMPLIANT**
- **CONTROL UP TO FOUR DUAL-HEAD COMPUTERS WITH A SINGLE KVM**
- **FULL EDID HDMI VIDEO EMULATION**
- **ZERO PIXEL LOSS WITH TMDS SIGNAL CORRECTION**
- **SUPPORTS USB KEYBOARD-MOUSE EMULATION**
- **SUPPORTS ALL USB 2.0 DEVICES**
- **USES HOTKEY COMMANDS FOR QUICK CHANNEL SELECTION**
- **INDEPENDENT (ASYNCHRONOUS) SWITCHING OF KVM AND PERIPHERAL USB PORTS. USERS CAN SCAN A DOCUMENT AND SAVE IN ANOTHER COMPUTER**
- **COMPLETE KVM EMULATION FOR ERROR-FREE BOOTING**
- **EASY SWITCHING VIA FRONT-PANEL, RS-232, OR HOTKEYS**
- **FULL HDMI SUPPORT, BACKWARDS COMPATIBILITY**



PHOTOS/WHAT'S INCLUDED/SPECIFICATIONS

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FRONT VIEW



HD6224A

BACK VIEW



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WHAT'S INCLUDED WITH THE HD6224A

- (1) 4K60 HDMI DUAL-HEAD KVM SWITCH - 4-PORT
- (1) 5-VDC, 4-A POWER ADAPTER

SPECIFICATIONS FOR HD6224A

VIDEO	
LINK RATE	5.4 Gbps/lane
INPUT INTERFACE	(8) HDMI 2.0 female
OUTPUT INTERFACE	(2) HDMI 2.0 female
RESOLUTION	Ultra-HD 4K (3840 x 2160) @ 30/50/60 Hz
INPUT EQUALIZATION	Automatic
VIDEO BANDWIDTH	300 MHz, 10.2 Gbps
HDCP COMPLIANT	Yes
INPUT/OUTPUT MAX. CABLE LENGTH	20 ft. (6.2 m) (depending on cable quality)
AUDIO	
INPUT INTERFACE	(4) 3.5-mm stereo audio jack
OUTPUT INTERFACE	(1) 3.5-mm stereo audio jack
FREQUENCY RESPONSE	20 Hz to 20 KHz
COMMON MODE	Rejection @ 60 dB
NOMINAL LEVEL	0.0 to 1.0 V
CONTROL	
FRONT PANEL	(4) Computer LEDs, (2) Activity buttons and LEDs
RS-232	DB9 female, 9600 bps, N, 8 1, No flow control
HOTKEYS	Via keyboard
EMULATION	Keyboard, Video and Mouse
USB	
SIGNAL TYPE	USB 2.0, 1.1, and 1.0 w/ internal hub
INPUT INTERFACE	(4) USB Type B (female)
DEVICE INPUT INTERFACE	(2) USB 1.1 Type A (female) for keyboard-mouse; (2) USB 2.0 Type A Transparent
OTHER	
OPERATING TEMPERATURE	23 to 95° F (-5 to +35° C)
STORAGE TEMPERATURE	-4 to +185° F (-20 to +85° C)
HUMIDITY	5 to 90%, noncondensing
POWER	External 100-240 VAC/5 VDC, 4 A
DIMENSIONS	2.875" H x 5.75" D x 12.75" W (7.3 x 14.6 x 32.4 cm)
WEIGHT	4.1 lb. (1.9 kg)
APPROVALS	UL, CE, ROHS Compliant

